

Refine Search

Search Results -

| Terms | Documents |
|-------------|-----------|
| L15 and L14 | 0 |

Database:

- US Pre-Grant Publication Full-Text Database
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- US OCR Full-Text Database
- EPO Abstracts Database
- JPO Abstracts Database
- Derwent World Patents Index
- IBM Technical Disclosure Bulletins

Search:

Refine Search
Recall Text
Clear
Interrupt

Search History

DATE: Friday, July 30, 2004 [Printable Copy](#) [Create Case](#)

| <u>Set Name</u> | <u>Query</u> | <u>Hit Count</u> | <u>Set Name</u> |
|---|---------------------------------|------------------|-----------------|
| | | | result set |
| <i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i> | | | |
| <u>L16</u> | L15 and l14 | 0 | <u>L16</u> |
| <u>L15</u> | l11 and l8 | 2 | <u>L15</u> |
| <u>L14</u> | l12 and l8 | 4 | <u>L14</u> |
| <u>L13</u> | l12 and l9 | 124 | <u>L13</u> |
| <u>L12</u> | DSPC | 996 | <u>L12</u> |
| <u>L11</u> | DOTAP | 2364 | <u>L11</u> |
| <u>L10</u> | L9 and l8 | 0 | <u>L10</u> |
| <u>L9</u> | DOTAP and DSPC | 124 | <u>L9</u> |
| <u>L8</u> | l7 same l6 | 50 | <u>L8</u> |
| <u>L7</u> | liposome or lipid or amphiphile | 124161 | <u>L7</u> |
| <u>L6</u> | L5 with l2 | 169 | <u>L6</u> |
| <u>L5</u> | vaccine with oral | 2960 | <u>L5</u> |
| <u>L4</u> | vaccien with oral | 0 | <u>L4</u> |
| <u>L3</u> | L2 with l1 | 39 | <u>L3</u> |

L2 dna or nucleic or plasmid
L1 oral vaccine

247400 L2
927 L1

END OF SEARCH HISTORY

[First Hit](#)[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)[Generate Collection](#)[Print](#)

L14: Entry 1 of 4

File: PGPB

Apr 11, 2002

DOCUMENT-IDENTIFIER: US 20020041861 A1

TITLE: Novel polymerizable fatty acids, phospholipids and polymerized liposomes therefrom

Summary of Invention Paragraph:

[0084] Thus, in one embodiment, the present invention encompasses polymerized liposomes which comprise (a) one or more of the fatty acids described above which may optionally be substituted with a suitable polymer spacer, activated linker, and one or more lectin targeting molecules; (b) one or more of the negatively charged polymerizable lipids described herein; (c) one or more non-polymerizable fatty acids or phospholipids; and (d) optionally cholesterol. Preferably, the polymerized liposomes comprises from about 0% to about 15% fatty acid and about 0% to about 100% negatively charged polymerizable lipids; and about 0% to about 50% non-polymerizable fatty acids, phospholipids or cholesterol; for example, DODPC/DODPG/Targeted fatty acid/cholesterol/DSPC.

Summary of Invention Paragraph:

[0089] The polymerized liposomes of the present invention can be used for the oral and/or mucosal delivery of a wide variety of therapeutics, including but not limited to, antineoplastic agents, antibiotics, antifungals, antimicrobials, vaccines, insulin, cytokines, interferon, hormones, calcitonin, fertility drugs, antiviral agents (ddi, AZT, ddc, acyclovir and the like), antibacterial agents, DNA and RNA nucleotides, i.e., useful for gene therapy.

[Previous Doc](#)[Next Doc](#)[Go to Doc#](#)